

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
MATERIALS BUREAU
ALBANY, NEW YORK

MATERIALS INSPECTION MANUAL
PROJECT ORIENTED

BASED ON NYSDOT STANDARD SPECIFICATIONS
CONSTRUCTION AND MATERIALS, DATED JANUARY 3, 1978 (RED BOOK)

ISSUED MAY, 1978

Supplended?

The purpose of this manual is to present in brief outline form the procedures used by the New York State Department of Transportation in determining the acceptability of materials arriving at project sites where work is being progressed under the administration of the Design and Construction Division.

Detailed information relative to these procedures will be found in the referenced specification and in Materials Methods or other documents as listed in the column of the following chart entitled "Related Instructional Procedures."

The appendices included with this manual are: 1) Examples of the acceptance stamps of the Inspection Agencies and, 2) The essential components included in a Certification.

Any questions that arise as to interpretation or meaning of these procedures should be directed to the Materials Bureau.

NOTE: The provisions of this manual are also, in general, applicable for projects let under the 1973 Specifications (Blue Book). Any problems in effecting such an application should be immediately communicated to the Materials Bureau Product Control Office at 518/457-5642.

SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPTABILITY
701 <u>HYDRAULIC CEMENTS</u>		
701-01 Portland Cement	Materials Method 10.0-10.3	1. Appearance of Supplier's name on Approved List 7.42-2-15 a. Listed under "A" of that list 1. Bulk Cement - Cement Shipment certification, Form BR 280 2. Bagged Cement - Legend on each bag stating "MEETS NYSDOT SPEC." b. Listed under "B" of that List 1. Bulk Cement - Lead car seals plus Cement Shipment notice, Form BR 44 2. Bagged Cement - Legend as above plus Cement Shipment Notice, Form BR 44 2. Shipments received during non-inspection hours when permitted by Region office must be accounted for to the satisfaction of the inspector.
701-02 Masonry Cement		Legend on each bag stating conformance of contents to ASTM C91
701-04 Concrete Repair Material		Appearance of Brand name on Approved List 7.42-2-13
701-05 Concrete Grouting Material		Appearance of Brand name on Approved List 7.42-2-26
702 <u>BITUMINOUS MATERIALS</u>		
702-01 through 702-04	Materials Method 8.1	1. Certified shipment notice, Form BR 162 with each delivery 2. Subsequent to sampling the green copy of sample Form BR 170 overstamped "SAMPLE RECEIVED BY BUREAU OF MATERIALS" and returned to sampling location via Region office. This does not preclude material being later rejected on the basis of test results.
702-05 through 702-06	Materials Method 8.3	Producer's Certification
702-10 through 702-16	Materials Method 8.3	Producer's Certification
702-20 through 702-25	Materials Method 8.3	Producer's Certification
702-3001 through 702-3601	Materials Method 8.2	Same as 702-01
702-4001 through 702-4501	Materials Method 8.2	Same as 702-01
702-50 through 702-62	Materials Method 8.3	Producer's Certification
702-70 Synthetic Resin Binder		Contact Materials Bureau
702-71 Synthetic Resin Binder Liquid		Contact Materials Bureau

SPECIFICATION

RELATED INSTRUCTIONAL
PROCEDURE

EVIDENCE OF ACCEPTABILITY

703 AGGREGATES

703-01 Fine Aggregates

Materials Method 7.1

1. A Certification executed by the source stating that the aggregate supplied to the project or mix plant has been approved by the Department. The source name, source identification number and the current test number should be included in the Certification.
2. A Certification from the contractor or mix plant owner, as applicable, stating that the aggregate as identified in (1) above is the material used in the work.
3. Verification by the Regional Materials Engineer that the source is currently approved.

Special Note - At the option of the Regional Director, Delivery Tickets may be required for each shipment when aggregates are being received from more than one source and can not be differentiated by the Visual Identification Test. (Appendix G of Materials Method 9.1 to be published.)

703-02 Coarse Aggregate

Materials Method 7.1

Same as 703-01, in addition:

1. The required Certifications should also indicate the NYSDOT size (s) furnished.
2. A gradation analysis by the Engineer.

703-03 Mortar Sand

Same as 703-01, in addition:

1. The Certifications should indicate the specific Materials Designation for the aggregate supplied (e.g., 703-03 Mortar Sand).

703-04 Grout Sand

See 703-03

703-05 Fine Aggregate for White
Portland Cement Concrete

See 703-03

703-06 Cushion Sand

See 703-03

703-07 Concrete Sand

See 703-03

703-08 Mineral Filler

Producer's Certification indicating type of material and conformance to gradation requirements.

703-10 Lightweight Aggregate

Contact Materials Bureau

704 MASONRY UNITS

704-01 Common Brick

E.I.75-8

704-02 Concrete Brick

704-03 Concrete Block

704-04 Concrete Block

A. Plant Inspected Material

1. Buff copy of Shipment Authorization Form BR-195 or Shipment Certification Form BR-97 with each delivery.
2. Validated Green copy of Form BR-195 or Validated Form BR-97 for each delivery.

B. Project Inspected Material

1. Validated Sample & Acceptance Transmittal Form BR-240 (6 full-size blocks or 10 full-size bricks, required as a sample).

704-06 Precast Concrete
Cribbing

Materials Method 16

704-07 Precast Transverse
Concrete Drainage
Interceptors

Materials Method 16

1. Shipment Certification Form BR-97 with each delivery.
2. "NYS DoT Accepted" stamped on each unit.
3. Validated copy of Form BR-97 subsequent to shipment.

SPECIFICATION

RELATED INSTRUCTIONAL
PROCEDURE

EVIDENCE OF ACCEPTABILITY

704-10 Split Faced Concrete
Brick

- A. Plant Inspected Material
1. Shipment wrapped per specification.
 2. Buff copy of shipment authorization, Form BR-195.
 3. Validated green copy of Form BR-195.
- B. Project Inspected Material
1. Shipment wrapped per specification.
 2. Submit to Materials Bureau 10 full size units wrapped as described in specification.
 3. Acceptance action on Sample & Acceptance Transmittal, Form BR-240.

704-11 Precast Concrete Materials Method 16
Coping

See 704-06

704-12 Decorative Concrete
Block

See 704-10 Except that when project site sampling is necessary the number of specimens shall be as described in the specification.

705 JOINT MATERIALS

705-01 Preformed Cork Joint
Filler

Manufacturer's Certification

705-03 Preformed Rubber Joint
Filler

Manufacturer's Certification

705-05 Plastic Joint Material

Manufacturer's Certification

705-06 Caulking Compound for
Structures

Manufacturer's Certification

705-07 Premoulded Bituminous
Joint Filler

1. Manufacturer's Certification to ASTM D1751 plus Supplier's Certification when supplied by other than the manufacturer.
2. Tag on each bundle identifying manufacturer and supplier.

705-09 Preformed Elastic Materials Method 3
Bridge Joint Sealer

1. Each packaged unit labeled with all of the following:
 - a. NYSDOT Materials Designation
 - b. Lot Number
 - c. Test Number
 - d. Date of Acceptance
 - e. Date of Manufacture
 - f. Footage
 - g. Manufacturer's name and address
2. Intact Department Security Seals
 - a. Carton - Four red tape mylar seals (two on top flaps and two on bottom) plus two green tape mylar seals affixed to the side of the carton containing the labeling information.
 - b. Small Reel - Two red and two green tape mylar securing the ends of the encircling cardboard covering OR if metal bands are used to hold cardboard covering in place, sealed as described below.
 - c. Telephone Cable Reel - One red and one green tape mylar seal across each metal band securing the cardboard covering.
 - d. Pallet - Two red and two green tape mylar seals across the metal bands securing the contents or covering.

SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPTABILITY
705 <u>JOINT MATERIALS</u>		
705-09 Preformed Elastic Bridge Joint Sealer (continued)	Materials Method 3	<i>Special Note - It is permissible to transfer cable reels and pallets of joint sealer between projects. Mylar tape seals should be present in a manner described above when the material is delivered to the first Department project but do not have to be present on subsequent projects receiving the material. Transferred material should be received accompanied by a letter from the Engineer of the project previously using the material. The letter should state that the material was received at the first project properly sealed and should also contain an estimate of the amount remaining on reel or pallet.</i>
705-10 Preformed Elastic Longitudinal Joint Sealer	Materials Method 3	See 705-09 (Telephone cable reels not permitted by Materials Method)
705-11 Polyvinyl Chloride Extruded Shapes & Sheet Material	Materials Method 17	<ol style="list-style-type: none"> 1. Department's red metal seal and green metal seal affixed to each length by means of a wire passing through the length. Each carton of foam inserts for Type E are sealed with red and green mylar tape seals. 2. Manufacturer's name, lot number and PVC shape or type imprinted on each length. In addition the test number shall also appear on each length or on a tag attached to the length.
705-12 Preformed Elastic Transverse Con- traction & Expan- sion Joint Sealers	Materials Method 3	See 705-09
705-13 Lubricant for Preformed Elastic Joint Sealer		Manufacturer's Certification. (Usage shall be with 270 days of date of manufacture as marked on each container.)
705-15 Transverse Joint Supports		
Transverse Joint Support Elements and Assemblies		Appearance of the transverse joint support on the Standard Sheets OR Approval by the Deputy Chief Engineer (Facilities Design.)
Transverse Joint Support Mechanical Implantation Procedures		Appearance of the procedure on the Approved List of Mechanical Implantation Procedures OR Approval by the Deputy Chief Engineer (Construction).
705-20 Mortar for Stone Curbs		Inspection by Project Staff
705-21 Mortar for Concrete Masonry		Inspection by Project Staff

706 CONCRETE, CLAY & FIBER PIPE

706-01 Non-Reinforced Concrete Pipe	Materials Method 1	<ol style="list-style-type: none"> 1. Each pipe length marked on barrel with following: <ol style="list-style-type: none"> a. Name or trademark of manufacturer b. Date of manufacture c. "NYS Lot Number _____" d. Diameter and Class e. Per ASTM C-76 Wall Designation <p><i>Special Note - Class and wall designation do not apply to non-reinforced pipe, end sections, manhole sections, cattle pass, leaching basins and porous pipe.</i></p> <ol style="list-style-type: none"> 2. Shipment Certification, Form BR-97 with each delivery 3. Validated copy of Form BR-97, (if not recieved within three weeks after arrival of shipment, notify Materials Bureau).
706-02 Reinforced Concrete Pipe	Materials Method 1	See 706-01 (Except that for pipe 18" and above, markings shall be on <u>inside</u> of barrel).
706-03 Reinforced Concrete Elliptical Pipe	Materials Method 1	See 706-02
706-04 Precast Reinforced Concrete Manhole Units	Circular Units, Materials Method 1	See 706-02
	Square & Rectangular Units Materials Method 16	Contact Materials Bureau
706-05 Porous Concrete Pipe Underdrain	Materials Method 1	See 706-01
706-06 Extra Strength Concrete Pipe Underdrain	Materials Method 1	See 706-01
706-07 Reinforced Concrete Pipe End Sections	Materials Method 1	See 706-01
706-08 Vitrified Clay Pipe Storm Drains	Materials Method 1	Manufacturer's Certification
706-09 Vitrified Clay Pipe Underdrain		Manufacturer's Certification
706-10 Asbestos Cement Sewer Pipe		Manufacturer's Certification
706-11 Perforated Asbestos Cement Pipe Underdrain		Manufacturer's Certification
706-12 Asbestos Cement Storm Drain Pipe		Manufacturer's Certification

Special Note - Storm drain lengths may be joined by plastic couplings. Such couplings must be accompanied by a manufacturer's certification that the resin used in the manufacture of the couplings meets ASTM D1248, Type I, Category 3, Class B.

RELATED INSTRUCTIONAL
PROCEDURE

SPECIFICATION

EVIDENCE OF ACCEPTABILITY

707 METAL PIPE

707-01 Cast Iron Pipe		Manufacturer's Certification
707-02 Round Corrugated Steel Pipe & Pipe Arches	Materials Method 12	1. Appearance of supplier's name on Approved List 7.42-2-12 2. Supplier's Certification with each shipment
707-03 Ductile Iron Pipe (Non-Pressure)		Manufacturer's Certification
707-04 Ductile Iron Pipe (Pressure)		Manufacturer's Certification
707-07 Steel Pipe Underdrain	Materials Method 12	See 707-02
707-09 Corrugated Structural Steel Plate for Pipe, Pipe arches and Underpasses	Materials Method 12	See 707-02
707-10 Galvanized Corrugated Steel Headwalls & End Sections		See 707-02
707-12 Perforated Corrugated Aluminum Pipe Underdrain		Contact Materials Bureau
707-13 Round Corrugated Aluminum Pipe, Pipe Arches & End Sections		Contact Materials Bureau
707-14 Corrugated Aluminum Structural Plate for Pipe and Pipe Arches		Contact Materials Bureau
707-16 Smooth Lined Corrugated Steel Pipe		1. Appearance of fabricator's name on Approved List 7.42-2-12 2. Fabricator's Certification with each shipment

Special Note - The thickness of metal for the corrugated shell, metal liner and thickness of protective coating, if required, shall be as shown on the plans or as determined by the Deputy Chief Engineer, Facilities Design.

707-17 Smooth Lined Corrugated Aluminum Pipe	Contact Materials Bureau
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708 PAINTS

708-01 Paints - General		Not applicable
708-02 through 708-24 Various Paints	Materials Method 6	1. Intact red and green metal seals 2. Label information as follows: a. Name of product b. Materials Designation number c. Lot Number d. Batch Number e. Test Number f. Name and location of manufacturer g. Date of manufacture h. Date of acceptance i. Date of Expiration of Acceptance j. Weight per gallon (Not required for 708-22 - White Curb Paint)

SPECIFICATION

RELATED INSTRUCTIONAL
PROCEDURE

EVIDENCE OF ACCEPTABILITY

708 PAINTS708-30 Wood Preserva-
tive - Cresote
Oil

When shop inspected - Report of shipment of structural material, Form B&GC4
When NOT shop inspected - Manufacturer's Certification

708-31 Wood Preservative
Water Borne

See 708-30

708-32 Wood Preservative
Oil Borne

See 708-30

709 REINFORCING STEEL709-01 Bar Reinforcement
Grade 60

Materials Method 2 & 2.1

- A. For bars manufactured at Rolling Mills on Approved List 7.42-2-18
1. Reinforcing Bar Shipment Certification issued by fabricating shop for each shipment
 2. Conformance of bar markings with those displayed under Appendix 1 of Approved List

Special Note - Project staff is responsible for a period of one year from the date of issuance to assure that rejected heat numbers as issued and circulated by the Materials Bureau are not included on these Certifications.

- B. For bars manufactured at Rolling Mills NOT on Approved List 7.42-2-18
1. Buff copy of Shipment Authorization, Form BR-195 with each shipment
 2. Validated green copy of Shipment Authorization, Form BR-195 subsequent to receipt of shipment.
 3. Steel Reinforcement Tags, Form BR-131 attached throughout the bundles in the shipment

Special Note - Under B, reshipments of bars to a project site by a sign fabrication shop are accepted on the basis of a certification executed by the sign shop indicating that the BR-195 is on file at the sign shop and restating all of the identifying information, including test numbers, contained on the BR-195.

709 REINFORCING STEEL709-02 Wire Fabric For
Concrete Reinforce-
mentApproved List 7.42-2-23
Materials Method NY 4
E. I. 74-10

- A. Pavement fabric as described on Standard Sheet 502-1 (pay item no. 502.10 and 502.11)
 1. Appearance of the manufacturing plant on Approved List 7.42-2-23
 2. Certification with each shipment
- B. Fabric for all other uses & pavement fabric from manufacturers not on Approved List 7.42-2-23
 1. Shipment Certification Form BR-97 arriving with each shipment
 2. Steel Reinforcement Tag Form BR-131 attached throughout the fabric in the shipment
 3. Validated copy of the Form BR-97 arriving subsequent to the shipment

Special Note - Fabric arriving at the project site without proper documentation should be job sampled. The size of the sample submitted is described in Materials Method NY 4. The fabric should not be used until a Form BR-240 acceptance is received from the Materials Bureau

709-03 Bar Reinforcement
Grade 40

Materials Method 2

1. Buff copy of Shipment Authorization, Form BR-195 with each shipment
2. Validated green copy of Shipment Authorization, Form BR-195 subsequent to receipt shipment
3. Steel Reinforcement Tag Form BR-131 attached throughout the bundles in the shipment

Special Note - Re-shipments of Bars to a project site by a sign fabrication shop are accepted on the basis of a certification executed by the sign shop indicating that the BR-195 is on file at the sign shop & restating all of the identifying information, including test numbers contained on the BR-195.

709-04 Epoxy Coated Bar
Reinforcement,
Grade 60

E. I. 77-25

1. Form BR-195, Shipment Authorization stamped by the Inspection Agencies. (Test Number, Lot Number and Materials Bureau Validation not required)
2. Inspection Agency Tag affixed to each bundle of bars
3. Certification for the epoxy coating
4. Certification from the Applicator's of the epoxy coating
5. All requirements for Evidence of Acceptability of 709-01

709-05 Stud Shear
Connectors

Manufacturer's Certification

709-06 Prestressing Steel

A letter from Deputy Chief Engineer Structures indicating acceptance of specific reels.

709-07 Stone Curb
Anchor Bars

Manufacturer's Certification

SPECIFICATION

RELATED INSTRUCTIONAL
PROCEDURE

EVIDENCE OF ACCEPTABILITY

710 FENCE & GUIDE RAIL

710-01 Aluminum Fence Fabric	Materials Method 21	<p>A. Pre-sampled at manufacturing or storage locations off project site</p> <ol style="list-style-type: none"> 1. One red metal seal and one green metal seal affixed to each roll <p>B. All other fabric</p> <ol style="list-style-type: none"> 1. One full-height sample, one foot wide to be taken by project staff and submitted for test to Materials Bureau 2. Acceptance action on Sample and Acceptance Transmittal, Form BR-240 <p><i>Special Note - Dimensional compliance of all fabric is responsibility of project staff.</i></p>
710-02 Galvanized Steel Fence Fabric	Materials Method 21	See 710-01
710-03 Vinyl Coated Steel Fence Fabric	Materials Method 21	See 710-01
710-04 Aluminum Coated Steel Fence Fabric	Materials Method 21	See 710-01
710-10.01 Steel & Iron Posts Rails, Braces & Fittings for Chain Link Fence		<ol style="list-style-type: none"> 1. Manufacturer's Certification for Compliance 2. Dimensional check by project staff
710-11 Aluminum Posts, Rails, Braces & Fittings for Chain Link Fence		<p>A. Posts, rails, braces</p> <ol style="list-style-type: none"> 1. One two-foot length submitted to Materials Bureau for test plus dimensional check by project staff 2. Acceptance action on Sample and Acceptance Transmittal, Form BR-240 <p>B. Fittings</p> <ol style="list-style-type: none"> 1. Sample of one of each item (except Post Caps) submitted to Materials Bureau for test plus dimensional check by project staff 2. Acceptance action on Sample and Acceptance Transmittal, Form BR-240
710-12 Plastic Coated Posts, Rails, Braces & Fittings for Chain Link Fence		<ol style="list-style-type: none"> 1. Manufacturer's Certification for compliance 2. Dimensional check by Project staff
710-13 Wood Posts		Manufacturer's Certification
710-20 Corrugated Beam Guide Railing & Mall Barrier	Materials Method 14 EI 77-40 Approved List 7.42-2-32	<ol style="list-style-type: none"> 1. For installation, the appropriate Materials Certification (as listed below) completed by the erector. 2. For payment, a facsimile copy of the Materials Certification stamped "Receipt Acknowledged by the Materials Bureau." 3. In addition, rail sections of box beam guide rail and median barrier also require a validated Form BR-240 showing the Manufacturer and heat number matching the Manufacturer's symbol and the heat number stamped into the rail.
710-21 Box Beam Guide Railing & Median Barrier		BR-335 Box Beam Guide Railing Materials Cert.
710-22 Cable Guide Railing		BR-336 Heavy Post Blocked-Out Corrugated Beam Guide Railing and Median Barrier Materials Cert.
		BR-337 Box Beam Median Barrier Materials Cert.
		BR-338 Corrugated Beam Guide Railing and Mall Barrier Materials Cert.
		BR-339 Cable Guide Railing Materials Cert.

710 FENCE & GUIDE RAIL710-23 Steel Bridge and
Culvert RailingReport of shipment of Structural Material,
Form B&GC4, and appearance of Inspection
Agency Stamp on members.710-24 Aluminum Bridge
Railing

Contact Structures Subdivision

710-30 Right-of-Way
Fencing

Materials Method 21

A. Fabric1. Presampled off Project Sitea. One red metal seal and one green
metal seal affixed to each roll2. Not Presampleda. Sample consisting of three pieces each
of horizontal and vertical wire, each
8" long, per contract quantity per
supply source submitted to Materials
Bureau for testb. Acceptance action on Sample and Ac-
ceptance Transmittal, Form BR-240B. Posts & Fittings1. Manufacturer's Certification*Special Note - Dimensional compliance of all fabric responsibility
of project staff.*711 CONCRETE CURING MATERIALS
& ADMIXTURES711-01 Waterproof Paper
Blankets

Manufacturer's Certification

711-02 Quilted Covers

Manufacturer's Certification

711-03 Polyethylene
Coated Burlap
Blanket

Manufacturer's Certification

711-04 Polyethylene
Curing Covers
(White Opaque)

Manufacturer's Certification

711-05 Membrane Curing
CompoundAppearance of Manufacturer's name on Approved
List 7.42-2-6711-07 Form Insulating
Materials For
Winter ConcretingAppearance of Manufacturer's name on Approved
List 7.42-2-10

711-08 Admixtures

A. Air-entraining agentsAppearance of manufacturer's name on
Approved List 7.42-2-1B. Water-Reducing and Retarding AdmixturesAppearance of manufacturer's name on
Approved List 7.42-2-2C. Water-Reducing AdmixturesAppearance of manufacturer's name on
Approved List 7.42-2-9711-09 Emulsified Carbon
Black

Materials Method 19

Intact red metal seal and green metal seal
on each container. Any openings other than
cover must be sealed with red tape mylar seal.

712 MISCELLANEOUS

712-01 Water		<ul style="list-style-type: none"> A. Municipal water supplies are considered acceptable. B. Submits samples of doubtful quality Acceptance Action Form BR-240.
712-02 Calcium Chloride	Materials Method 13	<ul style="list-style-type: none"> 1. Packaged in moisture proof bags of not more than 100 lbs. each OR in air-tight drums of not more than 450 lbs. each OR in tank cars, covered hopped cars, or covered trucks. 2. Labeled with: <ul style="list-style-type: none"> a. Name of manufacturer b. Net weight of contents c. Percentage of calcium chloride (CaCl₂) guaranteed by manufacturer
712-03 Sodium Chloride		Manufacturer's Certification
712-04 Hydrated Lime		Manufacturer's Certification
712-05 Precast Concrete Right-of-Way Markers		Manufacturer's Certification
712-12 Asphalt Roofing Felt		Manufacturer's Certification
712-13 Timber and Lumber		Engineer's Inspection
712-14 Stress Graded Timber and Lumber		<ul style="list-style-type: none"> 1. Branded with stress grade mark 2. Manufacturer's Certification of inspection conforming to ASTM D245
712-15 Gabions		Manufacturer's Certification
712-16 Pigment for Colored Synthetic Resin Binder Concrete		Contact Materials Bureau
712-17 Wood Cross Ties		Contact Materials Bureau

713 LANDSCAPE ITEMS

All Items	Administered by Landscaping Bureau
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714 CURBING & GUTTER

714-01 Stone Curb		<ul style="list-style-type: none"> 1. Appearance of source on Approved List 7.42-2-24 2. Sources not on Approved List must be sampled and submitted to Materials Bureau for test
714-04 Precast Concrete Curb	Materials Method 16	<ul style="list-style-type: none"> 1. Form BR-97 with each shipment 2. Validated copy of Form BR-97 subsequent to shipment 3. "NYSDOT ACCEPTED" stamped on each unit
714-05 Hydraulically Pressed Precast Concrete Curb		See 714-04
714-06 Asphalt Concrete Curb		Refer to Section 401 of Specifications
714-07 Precast Concrete Gutter	Materials Method 16	See 714-04

715 CASTINGS FORGINGS &
METALS

715-01 Structural Steel	See Appendix 1	A. Material under shop inspection 1. "Report of shipment of Structural Material," Form, B&GC4 2. Acceptance stamp of inspection agency B. No shop inspection 1. Certified Test Results
715-02 Steel Castings		See 715-01
715-03 Aluminum Castings		See 715-01 except for fence items which are governed by 710-11
715-04 Wrought Aluminum		A. Bridge Railing: Report of shipment of structural material, Form B&GC4 B. Fencing Items: See 710-11 C. All other work: Manufacturer's Certification
715-05 Iron Castings		A. Roadway Drainage items: Manufacturer's Certification B. Fencing Items: See 710-11 C. All other items: 1. Under ship inspection: "Report of shipment of structural materials," Form B&GC4 2. No shop inspection: Certified Test Results
715-06 Steel Forgings		See 715-05
715-09 Malleable Iron Castings		See 715-05
715-11 Metal Bin Type Retaining Wall		1. Manufacturers certified test results and guarantee 2. Engineer's inspection
715-13 Prefabricated Adjustment Rings for Manholes		Engineer's Inspection
715-14 High Strength Bolts, Nuts & Washers		1. Certified physical and chemical test results with each shipment. The manufacturers quality control lot numbers as printed on the kegs or boxes must appear on these test result documents 2. Project staff must verify the test results as meeting specification requirements 3. Sample and submit to Materials Bureau, two bolts from each control lot for the critical connections enumerated under "Test & Acceptance" paragraph of the specification. Only 1 control lot per Form BR-240. 4. Acceptance on Sample and Acceptance Transmittal, Form BR-240 for each control lot <u>OR</u> memo from Structures Subdivision indicating acceptance.
715-15 Pins and Rollers		1. Certified Test Results 2. Dimensional Compliance

715 CASTINGS FORGINGS &
METALS

715-16 Stainless Steel E. I. 73-30
Connecting Products

- A. Plant Inspected Material
1. Buff copy of Shipment Authorization, Form BR-195 with each delivery
 2. Validated green copy of Form BR-195 subsequent to delivery
 3. Check for stamped markings as required by E. I. 73-30. (U bolts may be tagged in lieu of stamping)
- B. Project Inspected Material
1. Sample per E. I. 73-30
 2. ONLY 1 UNIQUE SAMPLE (3 sets) TO EACH FORM BR-240
 3. Acceptance on Sample and Acceptance Transmittal, Form BR-240 for each unique set OR memo from Structures Subdivision indicating acceptance.

716 BEARINGS & EXPANSION PLATES

716-02 Plain Elastomeric Materials Method 23
Bridge Bearings See Appendix 1

1. Buff copy of Shipment Authorization Form BR-195 with each delivery
2. Validated green copy of Form BR-195 subsequent to delivery
3. Double Inspection Agency Stamp or one Inspection Agency Stamp with 1 "NYSDoT Accepted" stamp on each unit

716-04 Steel Laminated See 716-02
Elastomeric Bridge
Bearings

See 716-02

716-05 Self-Lubricating
Bronze Plates

Manufacturer's Certification

717 CONCRETE PROTECTIVE COATINGS

717-01 Epoxy Resin Pro- Materials Method 15
tective coating

1. Red and Green metal or tape seals, (Type of seal determined by product packaging and/or container opening). When cans are cartonized 2 red tape seals and 2 green tape seals are affixed to that side of the carton containing the label information such that the label cannot be removed without destroying the tags.
2. Labeling as detailed in Specification.

717-02 Bituminous Epoxy Materials Method 15
Protective Coating

See 717-01

Special Note - This material may be delivered in bulk in a specially designed Broyhill applicator truck with seals attached to all top hatches and pump inlet lines. The truck is accompanied by a Form BR-195 (Buff card copy) containing all the normal labeling information, plus the quantity in the truck. For transfer shipments from one NYSDoT project to another, the truck must be accompanied by a letter from the EIC of the first project stating all the information as found on the original BR-195, plus the quantity still in the truck. Security seals may have to be broken to accommodate application procedures once at a project site. This may be done only with the approval of a Project Inspector.

718 PRESTRESSED CONCRETE
UNITS (STRUCTURAL)718-01 Prestressed Concrete
Units (Structural) See Appendix 1

1. Presence of Report of Shipment of Structural Materials, Form B&GC4
2. Shop inspectors stamp of approval on each unit

718-02 Prestressed Concrete
I Beam Units

See 718-01

718-03 Prestressed Concrete
Box Beam Units

See 718-01

718-04 Prestressed Concrete
Hollow Slab Units

See 718-01

719 METAL COATINGS719-01 Galvanized Coatings
and Repair Methods

Covered under particular item being coated

719-02 Aluminum Anodic Coatings

See 719-01

719-03 Aluminum Coating (Hot Dip)

See 719-01

720 PILES720-01 Untreated Timber
Piles

Shop inspectors stamp of approval

720-02 Creosoted Timber
Piles

See 720-01

720-03 Castings for Cast-
In-Place Concrete
Piles

Manufacturer's Certification

720-04 Steel Bearing Piles

Manufacturer's Certification
in duplicate

720-05 Pile Shoes

Approval by Deputy Chief Engineer
(Structures Subdivision)

720-06 Steel Splices

See 720-04

721 CONCRETE ADHESIVES AND
REPAIR MATERIALS

721-01 Epoxy Resin System Materials Method 15

See 717-01

721-02 Epoxy Polysulfide
Binder Materials Method 15

See 717-01

721-03 Epoxy Polysulfide
Grout Materials Method 15

See 717-01

721-05 Epoxy Repair
Paste Materials Method 15

See 717-01

SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPTABILITY
723	<u>LIGHTING</u>	
	723-01 Light Standard (Aluminum)	Manufacturer's Certification
	723-10 Anchor Base (Aluminum)	See 723-01
	723-15.01 Breakaway Transformer Base	Appearance of manufacturer's name on Approved List 7.42-2-25
	723-20 Rigid Steel Con- duit, Zinc Coated	See 723-01
	723-21 Asbestos Cement Conduit-Type II	1. Manufacturer's Certification 2. Each length marked with manufacturer's name, trade name and nominal size
	723-22 Asbestos Cement Conduit-Type I	See 723-21
	723-23 PVC Coated Gal- vanized Steel Con- duit	See 723-01
	723-24 Flexible Conduit	See 723-01
	723-25 Alloy Steel Pipe Conduit (Exposed Areas)	See 723-01
	723-30 Mercury Vapor Lumi- naires (Standard Mount)	See 723-01
	723-31 Mercury Vapor Lumi- naires (Underbridge Mount)	See 723-01
	723-32 Fluorescent Luminaires (Underbridge Mount)	See 723-01
	723-40 Cast Iron Junction Box	See 723-01
	723-45 Precast Reinforced Concrete Pullboxes	Manufacturer's Certification
	723-50 Photoelectric Control	See 723-01
	723-60 Anchor Bolts	Manufacturer's Certification
	723-70 Multiple Lighting Wire	1. Manufacturer's Certification 2. Evidence of Underwriter's Laboratory Approval
	723-75 Ground Wire	See 723-70
724	<u>TRAFFIC SIGNALS</u>	
	All Items	Administered by Traffic and Safety Division
725	<u>MISCELLANEOUS METALS & PLASTICS</u>	
	725-01 Copper Flashing	Manufacturer's Certification
	725-02 Steps for Manholes	Manufacturer's Certification

727

PAVEMENT MARKING MATERIALS

727-01 White Thermoplastic Re-
flectorized Pavement
Markings

- A. Thermoplastic Material
1. Red and green tape seals on each carton or double Inspection Agency Stamp on each bag
 2. Form BR-97 with each delivery (unvalidated)
 8. Glass Spheres
 1. Manufacturer's Certification

Special Note - Should seals not be broken upon opening of the unit, the Engineer must see that the seals are destroyed.

727-02 Yellow Thermoplastic Re-
flectorized Pavement
Markings

See 727-01

7.27-01.01 White & Yellow Appendix 1
Thermoplastic Re-
flectorized Pavement
Markings

See 727-01

727-03 White Pavement Marking
Paints

Appearance of manufacturer's name on
Approved List 7.42-2-21

727-04 Yellow Pavement Marking
Paints

Appearance of manufacturer's name
on Approved List 7.42-2-22

727-05 Glass Beads for Reflec-
torized Pavement Marking
Paints

Appearance of manufacturer's name
on Approved List 7.42-2-20

728

VERTICAL LOAD TRANSMITTING DEVICES

728-01 Rubber Impregnated Woven
Cotton Fabric

Manufacturer's Certification

728-02 Rubber Impregnated Ran-
dom Fiber Pad

Appearance of manufacturer's name
on Approved List 7.42-2-19

728-03 Plain Rubber Pad

1. One full sample per size submitted by Engineer to Materials Bureau
2. Acceptance action on Form BR-240

728-04 Sheet Lead

Manufacturer's Certification

728-05 Canvas and Dull Orange
Primer

Engineer's approval

728-06.01 Asbestos Sheet Packing
(Treated Both Sides)

Manufacturer's Certification

SPECIFICATION

RELATED INSTRUCTIONAL
PROCEDURE

EVIDENCE OF ACCEPTABILITY

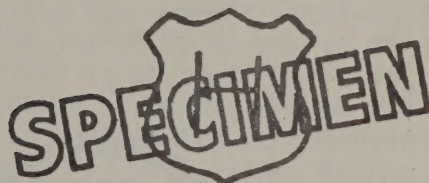
730	<u>SIGNS & DELINEATORS</u>	
	730-01 Aluminum Sign Panels	Manufacturer's Certification
	730-02 Plywood Sign Panels	Manufacturer's Certification
	730-05.01 Reflective Sheeting (Class A)	Manufacturer's Certification
	730-05.02 Reflective Sheeting (Class B)	Manufacturer's Certification
	730-10 Acrylic Plastic Reflex Reflectors for Types I & II Sign Characters	Manufacturer's Certification
	730-11 Reflectroized Sheeting Sign Characters (Type III)	Manufacturer's Certification
	730-12 Reflectorized Sheeting Sign Characters (Type IV)	Manufacturer's Certification
	730-13 Relfectorized Sheeting Sign Characters (Type V)	Manufacturer's Certification
	730-14 Reflectorized Sheeting Sign Characters (Type VI)	Manufacturer's Certification
	730-20 Sign Posts and Footings	Manufacturer's Certification
	730-22 Stiffners, Overhead Brackets and Miscellaneous Hardware	Manufacturer's Certification
732	<u>DRILLING</u>	
	All Items	Administered by Soils Bureau
735	<u>CONCRETE CYLINDER CURING BOX</u>	
	735-01 Concrete Cylinder Curing Box	Approved by Engineer in charge
736	<u>PERMANENT CORRUGATED METAL FORMS FOR BRIDGE SLABS</u>	
	736-01 Permanent Corrugated Metal Forms for Bridge Slabs	1. Manufacturer's certification to ASTM A446 2. Conformance to Approved Shop Drawings

APPENDIX 1

EXAMPLES OF ACCEPTANCE STAMPS OF THE INSPECTION AGENCIES

In this manual an acceptance stamp of the Inspection Agency is mentioned in regard to the "Evidence of Acceptability" of various materials received at the project site; e.g. item 715-01 Structural Steel, 716-02 and 716-04 Elastomeric Bridge Bearings. Currently, the three Inspection Agencies we employ are The Robert W. Hunt Company, Pittsburgh Testing Laboratory (PTL) and Jersey Testing Laboratory (JTL). To help you identify their acceptance stamps, below are the stamp(s) for each Agency.

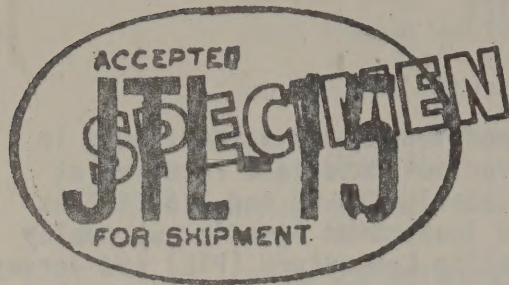
THE ROBERT W. HUNT COMPANY



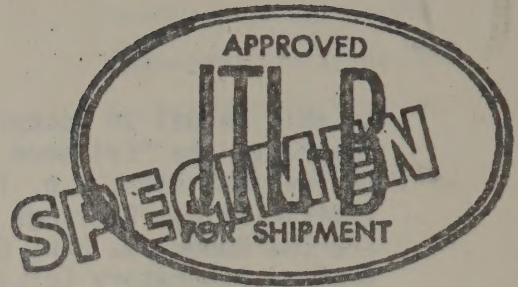
PITTSBURGH TESTING LABORATORY



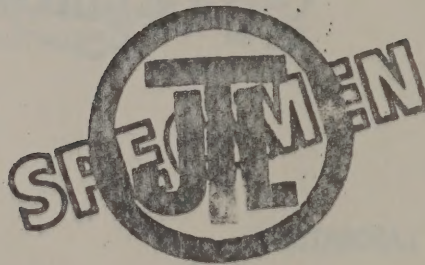
JERSEY TESTING LABORATORY



(NUMBER MAY VARY)



(LETTER MAY VARY)



The stamps shown above are "typical" for each Agency. Stamps on material received should be similar to but may vary slightly from any one of those shown. However, if the stamp on the material is not similar to those shown, the Materials Bureau via the Region Materials Office should be contacted to verify the acceptability of the material.

CERTIFICATIONS

Throughout this Manual references are made to a "Manufacturer's Certification" as an evidence of acceptability of specific materials or products.

Such a document can properly be executed only by a manufacturer or producer.

When shipments are made directly to a project site by the manufacturer or producer the essential components of a MANUFACTURER'S CERTIFICATION include:

1. IDENTIFICATION OF THE MANUFACTURER OR PRODUCER

Name of company and the address of its manufacturing or producing facility. The brand name of the material or product should also be included if different than the name of the company.

2. IDENTIFICATION OF THE MATERIAL OR PRODUCT

Generic name of the material or product.

3. IDENTIFICATION OF THE SHIPMENT

Sufficient detail to describe the quantity content of the shipment and its project destination including a date of shipment and adequate identification of the vehicle in which the shipment was made. When material is received in crated or packaged from via common carrier the serial number of the bill of lading accompanying such shipment should be the identification criteria rather than a vehicle identification.

4. STATEMENT OF CONFORMANCE

A definitive statement that the material contained in the shipment meets the requirements of the Department Specification under which it is to be used or a specific specification of another agency as stated in the Department Specification (i.e. - ASTM, AASHTO, etc.)

5. IDENTIFICATION OF PERSON EXECUTING THE CERTIFICATION

The certification must be signed by a person who identifies himself as being connected with the company indicated by a statement or title of his position in the company. It is not necessary that such a signature be notarized.

When the shipment is made to a project site by a supplier other than the manufacturer or producer, the MANUFACTURER'S CERTIFICATION should include all numbered items above except #3 "Identification of the Shipment" which will not in all cases be applicable to the supplier's shipment. In these cases a separate CERTIFICATION must be executed by the supplier identifying the shipment as detailed in #3 above and attached to the manufacturer's certification.

TESTIFICATION

The undersigned hereby certifies that the foregoing is a true and correct copy of the original of the same as the same is now in his possession.

Given under my hand and the seal of the said Court at the City of New York, this _____ day of _____, 19____.

Notary Public for the State of New York

TESTIFICATION OF THE MANUFACTURER OR PRODUCER

I, the undersigned, being duly sworn, depose and say that the foregoing is a true and correct copy of the original of the same as the same is now in my possession.

TESTIFICATION OF THE MATERIAL OR PRODUCT

I, the undersigned, being duly sworn, depose and say that the foregoing is a true and correct copy of the original of the same as the same is now in my possession.

TESTIFICATION OF THE SHIPMENT

I, the undersigned, being duly sworn, depose and say that the foregoing is a true and correct copy of the original of the same as the same is now in my possession.

TESTIFICATION OF THE RECEIPT

I, the undersigned, being duly sworn, depose and say that the foregoing is a true and correct copy of the original of the same as the same is now in my possession.

TESTIFICATION OF THE RECEIPT FOR THE RECEIPT

I, the undersigned, being duly sworn, depose and say that the foregoing is a true and correct copy of the original of the same as the same is now in my possession.

I, the undersigned, being duly sworn, depose and say that the foregoing is a true and correct copy of the original of the same as the same is now in my possession.

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